

Wharton Property  
Sale Creek, TN

										Rock Creek Watershed Boundary 1,007,009,857 sq. feet 23,118 Acres		After Removal of the Watershed The following areas are still viable for permitting and mining			
Assumption for In-place Coal Density: 80 lbs/cu-ft										Surface	Underground				
Morgan Springs & Richey Ridge Seams										90%	50%	Recoverable Coal Contained within Rock Creek Watershed Boundary (tons)		Mineable Reserves Remaining After Watershed Removal (tons)	
Map Location	Area (sq feet)		Area (acres)		Coal Thickness	In-Place Resources (tons)		Recoverable Reserves (tons)		Surface	Underground	Surface	Underground		
Mo1	1,365,737		31		1.0	54,629		49,167				49,167			
Mo2	2,411,241		55		1.0	96,450		86,805				86,805			
Mo3	1,746,732		40		1.0	69,869		62,882				62,882			
Mo4	571,152		13		2.0	45,692		41,123				41,123			
Mo5a	65,945		2		2.0	out side of property									
Mo5b	754,160		17		2.0	60,333		54,300				54,300			
Mo6	122,409		3		2.0	9,793		8,813				8,813			
Mo7	232,924		5		2.0	18,634		16,771				16,771			
Mo8	2,928,460		67		2.0	234,277		210,849				210,849			
Mo9	8,173,229		188		2.5	817,323		735,591				735,591			
Mo10	2,693,013		62		1.0	107,721		96,948				96,948			
Mo11a	415,558		10		3.0	49,867		44,880				44,880			
Mo11b	528,354		12		3.0	63,402		57,062		57,062					
Mo12a	88,606		2		2.0	7,088		6,380							
Mo12b	2,367,073		54		2.0	189,366		170,429		170,429					
Mo13	2,466,129		57		2.0	197,290		177,561		177,561					
Mo14	729,068		17		2.0	58,325		52,493		52,493					
Mo15	2,007,553		46		2.0	160,604		144,544		144,544					
Mo16	2,017,626		46		2.0	161,410		145,269		145,269					
Mo17	1,851,998		43		2.0	148,160		133,344		133,344					
Mo18	2,659,313		61		2.0	212,745		191,471		191,471					
Mo19	1,816,557		42		2.5	181,656		163,490		163,490					
Mo20	1,885,118		43		1.5	113,107		101,796		101,796					
Mo21	1,714,150		39		2.5	171,415		154,274		154,274					
Mo22a	2,690,544		62		0.8	89,685		80,716		80,716					
Mo22b	1,226,617		28		2.0	98,129		88,316				88,316			
Mo23	2,283,966		52		1.5	137,038		123,334				123,334			
Mo24	1,228,996		28		2.0	98,320		88,488				88,488			
Mo25a	942,647		22		2.5	94,265		84,838		84,838					
Mo25b	10,389,040		238		1.8	761,863		685,677				685,677			
Mo26a	2,854,209		66		1.5	171,253		154,127		154,127					
Mo26b	447,295		10		1.5	26,838		24,154				24,154			
Mo27		12,487,790		287	3.0		1,498,535		749,267		749,267				
Mo28		14,499,695		333	3.0		1,739,963		869,982				869,982		
Mo29		15,449,402		355	3.0		1,853,928		926,964				926,964		
Total Morgan Springs & Richey Ridge			1,462	974		4,706,546	5,092,426	4,235,892	2,546,213	1,811,415	749,267	2,418,097	1,796,946		

Wharton Property  
Sale Creek, TN

Lantana Seam

Map Location	Area (sq feet)		Area (acres)		Coal Thickness	In-Place Resources (tons)		Recoverable Reserves (tons)		Rock Creek Watershed Boundary (tons)		After Watershed Removal (tons)	
	Surface	Underground	Surface	Underground		Surface	Underground	Surface	Underground	Surface	Underground	Surface	Underground
La1	336,649		8		1.0	13,466		12,119				12,119	
La2	1,163,930		27		1.0	46,557		41,901				41,901	
La3	1,799,298		41		1.0	71,972		64,775				64,775	
La4a	1,633,979		38		1.0	65,359		58,823				58,823	
La4b	336,709		8		1.0	out side of property							
La5	1,175,065		27		1.0	47,003		42,302				42,302	
La6	982,466		23		2.0	78,597		70,738		70,738			
La7	666,038		15		2.0	53,283		47,955		47,955			
La8	1,426,386		33		1.5	85,583		77,025		77,025			
La9	2,928,765		67		1.5	175,726		158,153		158,153			
La10	869,045		20		1.5	52,143		46,928		46,928			
La11	1,306,881		30		1.5	78,413		70,572		70,572			
La12	533,038		12		1.5	31,982		28,784		28,784			
La13	1,011,861		23		1.5	60,712		54,640		54,640			
La14	896,105		21		2.0	71,688		64,520		64,520			
La15a	493,157		11		2.0	39,453		35,507		35,507			
La15b	413,636		9		2.0	33,091		29,782				29,782	
La16a	548,993		13		2.0	43,919		39,527		39,527			
La16b	753,849		17		2.0	60,308		54,277				54,277	
La17	795,939		18		2.0	63,675		57,308				57,308	
La18	784,713		18		2.0	62,777		56,499				56,499	
La19	5,916,054		136		1.5	354,963		319,467				319,467	
La20	1,277,864		29		1.5	76,672		69,005				69,005	
La21	5,165,980		119		1.5	309,959		278,963				278,963	
La22	397,422		9		2.0	31,794		28,614					
La23	265,661		6		2.0	21,253		19,128					
La24		6,491,915		149	3.8		995,427		497,713				497,713
La25a		5,561,288		128	3.8		852,731		426,365		426,365		
La25b		4,353,468		100	3.8		667,532		333,766				
La26		1,234,213		28	4.2		205,702		102,851				
La27		927,225		21	4.2		154,538		77,269				
La28		2,164,174		50	4.2		360,696		180,348				
La29		3,221,667		74	4.2		out side of property						
Total Lantana			778	550		2,030,348	3,236,625	1,827,313	1,618,312	694,349	426,365	1,085,222	497,713

Sewanee Seam

Map Location	Area (sq feet)		Area (acres)		Coal Thickness	In-Place Resources (tons)		Recoverable Reserves (tons)		Rock Creek Watershed Boundary (tons)		After Watershed Removal (tons)	
	Surface	Underground	Surface	Underground		Surface	Underground	Surface	Underground	Surface	Underground	Surface	Underground
Se1	52,031,542		1,194		2.1	4,387,993		3,949,194		3,949,194			
Se2a	955,195		22		2.1	80,555		72,499					
Se2b	6,643,465		153		2.1	560,266		504,239		504,239			
Se2c	937,175		22		2.1	79,035		71,132					
Se2d	76,679		2		2.1	6,467		5,820					
Se3	6,794,145		156		2.1	572,973		515,676		515,676			
Se4	3,566,584		82		2.1	300,782		270,704		270,704			
Se5	1,373,861		32		2.1	115,862		104,276		104,276			
Se6a	580,154		13		2.1	48,926		44,034		44,034			
Se6b	1,563,819		36		2.1	131,882		118,694					
Se6c	1,716,111		39		2.1	144,725		130,253					
Total Sewanee			1,750			6,429,466		5,786,519		5,388,122		-	-

Map Location	Area (sq feet)		Area (acres)		Coal Thickness	In-Place Resources (tons)		Recoverable Reserves (tons)		Rock Creek Watershed Boundary (tons)		After Watershed Removal (tons)	
	Surface	Underground	Surface	Underground		Surface	Underground	Surface	Underground	Surface	Underground	Surface	Underground
Ri1	742,742		17		3.0	89,129		80,216				80,216	
Ri2	743,590		17		3.0	89,231		80,308				80,308	
Ri3	762,852		18		3.0	91,542		82,388				82,388	
Ri4	839,570		19		3.0	100,748		90,674				90,674	
Ri5	417,894		10		3.0	50,147		45,133				45,133	
Ri6	1,435,576		33		3.0	172,269		155,042				155,042	
Ri7	4,223,331		97		3.0	506,800		456,120		456,120			
Ri8a	1,182,604		27		3.0	141,913		127,721		127,721			
Ri8b	232,348		5		3.0	27,882		25,094		25,094			
Ri9	1,058,234		24		3.0	126,988		114,289		114,289			
Ri10	453,284		10		3.0	54,394		48,955		48,955			
Ri11	849,515		20		3.0	101,942		91,748		91,748			
Ri12a	490,784		11		2.0	39,263		35,336		35,336			
Ri12b	218,953		5		2.0	17,516		15,765		15,765			
Ri12c	126,213		3		2.0	10,097		9,087		9,087			
Ri13	1,330,599		31		2.0	106,448		95,803		95,803			
Ri14	2,349,511		54		2.0	187,961		169,165		169,165			
Ri15	1,208,073		28		2.0	96,646		86,981		86,981			
Ri16	1,858,132		43		3.0	222,976		200,678		200,678			
Ri17	1,031,585		24		3.0	123,790		111,411		111,411			
Ri18	2,198,774		50		3.0	263,853		237,468				237,468	
Ri19	1,158,025		27		3.0	138,963		125,067				125,067	
Ri20	1,130,572		26		3.0	135,669		122,102				122,102	
Ri21	2,864,680		66		3.0	343,762		309,385				309,385	
Ri22	1,148,897		26		3.0	137,868		124,081				124,081	
Ri23	1,549,591		36		3.0	185,951		167,356				167,356	
Ri24	1,139,171		26		3.0	136,700		123,030				123,030	
Ri25	244,466		6		3.0	29,336		26,402					
Ri26a	175,889		4		3.0	21,107		18,996					
Ri26b	2,565,153		59		3.0	307,818		277,036		277,036			
Ri27a	1,339,555		31		3.0	160,747		144,672		144,672			
Ri27b	722,189		17		3.0	86,663		77,996					
Ri27c	261,261		6		3.0	31,351		28,216					
Ri27d	99,053		2		3.0	11,886		10,698					
Ri28a	8,253,745		189		3.0	990,449		891,404		891,404			
Ri28b	485,147		11		3.0	58,218		52,396					
Ri29a		8,885,682		204	3.0		1,066,282		533,141				
Ri29b		21,122,607		485	3.0		2,534,713		1,267,356		1,267,356		
Ri30a		11,137,184		256	3.0								

Total Richland	1,076	10,642	5,398,021	54,083,629	4,858,219	27,041,815	2,901,266	13,056,943	1,742,249	12,740,993
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Nelson Seam

Map Location	Area (sq feet)		Area (acres)		Coal Thickness	In-Place Resources (tons)		Recoverable Reserves (tons)		Rock Creek Watershed Boundary (tons)		After Watershed Removal (tons)	
	Surface	Underground	Surface	Underground		Surface	Underground	Surface	Underground	Surface	Underground	Surface	Underground
Ne1		36,482,957		838	3.0		4,377,955		2,188,977				2,188,977
Ne2a		1,086,538		25	3.0		out side of property						
Ne2b		30,865,886		709	3.0		3,703,906		1,851,953				1,851,953
Ne2c		145,127		3	3.0		out side of property						
Ne2d		513,650		12	3.0		61,638		30,819				
Ne2e		101,556,646		2,331	3.0		12,186,798		6,093,399				6,093,399
Ne2f		1,803,175		41	3.0		out side of property						
Ne2g		443,490		10	3.0		out side of property						
Ne 2h		253,876,076		5,828	3.0		30,465,129		15,232,565		15,232,565		
Ne2i		13,855,854		318	1.9		1,062,282		531,141		531,141		
Ne2j		property not controlled			3.0								
Ne2k		2,028,136		47	3.0		243,376		121,688				
Ne3a		74,562,452		1,712	1.9		5,716,455		2,858,227				
Ne3b		37,480,570		860	1.9		2,873,510		1,436,755		1,436,755		
Ne3c		81,944,968		1,881	1.9		6,282,448		3,141,224				3,141,224
Ne4	2,870,715				3.0	344,486		310,037				310,037	
Ne5a	234,275				3.0	28,113		25,302		25,302			
Ne5b	410,532				3.0	49,264		44,337				44,337	
Ne6	854,410				3.0	102,529		92,276				92,276	
Ne7	1,569,866				3.0	188,384		169,545				169,545	
Ne8	1,126,455				3.0	135,175		121,657				121,657	
Ne9	690,545				3.0	82,865		74,579				74,579	
Ne10	477,483				3.0	57,298		51,568				51,568	
Ne11	992,691				3.0	119,123		107,211				107,211	
Total Nelson			-	14,615		1,107,237	66,973,497	996,513	33,486,748	25,302	17,200,461	971,211	13,275,553

Reserve Summary	Area (acres)		Coal Thickness	In-Place Resources (tons)		Recoverable Reserves (tons)		Rock Creek Watershed Boundary (tons)		After Watershed Removal (tons)	
	Surface	Underground		Surface	Underground	Surface	Underground	Surface	Underground	Surface	Underground
Total Morgan Springs & Richey Ridge	1,462	974		4,706,546	5,092,426	4,235,892	2,546,213	1,811,415	749,267	2,418,097	1,796,946
Total Lantana	778	550		2,030,348	3,236,625	1,827,313	1,618,312	694,349	426,365	1,085,222	497,713
Total Sewanee	1,750	-	-	6,429,466	-	5,786,519	-	5,388,122	-	-	-
Total Richland	1,076	10,642	-	5,398,021	54,083,629	4,858,219	27,041,815	2,901,266	13,056,943	1,742,249	12,740,993
Total Nelson	14,615	14,615	-	1,107,237	66,973,497	996,513	33,486,748	25,302	17,200,461	971,211	13,275,553
Total reserves	19,682	26,782		19,671,618	129,386,178	17,704,456	64,693,089	10,820,454	31,433,036	6,216,778	28,311,206